

# Notice of Allowability

Application No.

10/687,580

Examiner

Henry K Choe

Applicant(s)

HSU ET AL.

Art Unit

2817

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the application filed on 10/20/2003.
2. ☒ The allowed claim(s) is/are 1-14.
3. ☒ The drawings filed on 20 October 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 1/6/05.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_



HENRY CHOE  
PRIMARY EXAMINER

**DETAILED ACTION**

***EXAMINER'S AMENDMENT***

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Chung Chen on 1/4/2005.

In line 12 of claim 1, "a pair of inductors" has been changed to --a first pair of inductors--.

In line 15 of claim 1, "inductor" has been changed to --variable capacitor--.

In line 17 of claim 1, "a" has been changed to --said--.

In line 18 of claim 1, "a pair of inductors" has been changed to --a second pair of inductors--.

In line 2 of claim 4, "inductor pair" has been changed to --first inductor pair--.

In lines 6-7 of claim 7, "emitters of said differential pairs being coupled to collectors of said differential pairs" has been replaced with --emitters and collectors of said plurality of differential pairs are connected together, respectively--.

In lines 8-10 of claim 7, "emitters and collectors of said plurality of differential pairs are connected together, respectively" has been replaced with --emitters of said common base transistor pairs being coupled to collectors of said plurality of differential pairs--.

In line 11 of claim 7, "a pair of inductors" has been changed to --a first pair of inductors--.

In line 14 of claim 7, "inductor" has been changed to --variable capacitor--.

In line 16 of claim 7, "a" has been changed to --said--.

In line 18 of claim 7, "a pair of inductors" has been changed to --a second pair of inductors--.

In line 19 of claim 12, "inductor" has been changed to --variable capacitor--.

In line 20 of claim 12, "a power supply, a pair" has been replaced with --said power supply, a second pair--.

In line 21 of claim 12, "said inductor pairs" has been replaced with --said second inductor pair--.

In line 23 of claim 12, "inductor pairs" has been changed to --second inductor pair--.

In line 25 of claim 12, "inductors" has been changed to --second inductor pair--.

### ***Reasons for Allowance***

Claims 1-14 are allowed.

The following is an examiner's statement of reasons for allowance: Regarding claims 1, 7 and 12, the closest prior art of record, Kusakabe (Fig. 3) does not disclose the following limitations: the physical structures of the first pair of inductors and pair of variable capacitors.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Patent numbers (5,815,039; 5,587,689; 6,404,263) are the differential amplifiers with the current sources.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry Choe whose telephone number is (571) 272-1760.



**HENRY CHOE  
PRIMARY EXAMINER**

#965